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Letter dated 19 June 2009 from the Permanent Representative of Japan to the United Nations addressed to the President of the Security Council

I have the honour to attach herewith the sensitive list of dual-use goods and technologies of the Wassenaar Arrangement. I should be grateful if the list could be published as a document of the Security Council.

(*Signed*) Yukio **Takasu**
Permanent Representative of Japan to the United Nations

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Annex to the letter dated 19 June 2009 from the Permanent Representative of Japan to the United Nations addressed to the President of the Security Council

THE SENSITIVE LIST OF DUAL-USE GOODS AND TECHNOLOGIES

N.B. *Where abbreviated entries are used, see the List of Dual-Use Goods and Technologies for full details. Text that differs from that in the List of Dual-Use Goods and Technologies is* ***shaded****.*

Category 1

1.A.2.	"Composite" structures or laminates...
1.C.1.	Materials specially designed for use as absorbers of electromagnetic waves...
1.C.7.c. & 1.C.7.d.	Ceramic-ceramic "composite" materials...
1.C.10.c. & 1.C.10.d.	"Fibrous or filamentary materials"...
1.C.12.	Materials as follows...
1.D. 2	"Software" for the "development" of organic "matrix", metal "matrix" or carbon "matrix" laminates or "composites" **specified by this List**.
1.E.1.	"Technology" according to the General Technology Note for the "development" or "production" of equipment and materials specified by **1.A.2. or 1.C. of this List**.
1.E. 2.e. & 1.E.2.f.	Other "technology"...

Category 2

2.B.1.a.	Not used since 2002
2.B.1.b.	Not used since 2002
2.B.1.d.	Not used since 2002
2.B.1.f.	Not used since 2002
2.B.3.	Not used since 2002
2.D.1.	**"Software", other than that specified by 2.D.2., specially designed for the "development" or "production" of equipment as follows:**

a. Machine tools for turning having all of the following:
   1. Positioning accuracy with "all compensations available" equal to or less (better) than **3.6** µm according to ISO 230/2 (1997) or national equivalents along any linear axis; and
   2. Two or more axes which can be coordinated simultaneously for "contouring control".

Sensitive List

Category 2 contd.

2.D.1.

b. Machine tools for milling having any of the following:
   1.a. Positioning accuracy with "all compensations available" equal to or less (better) than **3.6 µm** according to ISO 230/2 (1997) or national equivalents along any linear axis; and
   b. Three linear axes plus one rotary axis which can be coordinated simultaneously for "contouring control";

   2. Five or more axes which can be coordinated simultaneously for "contouring control" **and have a positioning accuracy with "all compensations available" equal to or less (better) than 3.6 µm according to ISO 230/2 (1997) or national equivalents along any linear axis; or**

   3. A positioning accuracy for jig boring machines, with "all compensations available", equal to or less (better) than 3 µm according to ISO 230/2 (1997) or national equivalents along any linear axis;

c. Electrical discharge machines (EDM) as specified in 2.B.1.d.

d. Deep-hole-drilling machines as specified in 2.B.1.f.

e. "Numerically controlled" or manual machine tools as specified in 2.B.3.

2.E.1.

"Technology" according to the General Technology Note for the "development" of "software" specified by 2.D. of this List or for the "development" of equipment as follows:

a. Machine tools for turning having all of the following:
   1. Positioning accuracy with "all compensations available" equal to or less (better) than **3.6 µm** according to ISO 230/2 (1997) or national equivalents along any linear axis; and
   2. Two or more axes which can be coordinated simultaneously for "contouring control".

Sensitive List

Category 2 contd.

2.E.1.

b. Machine tools for milling having any of the following:
   1.a. Positioning accuracy with "all compensations available" equal to or less (better) than **3.6 µm** according to ISO 230/2 (1997) or national equivalents along any linear axis; and
   b. Three linear axes plus one rotary axis which can be coordinated simultaneously for "contouring control";

   2. Five or more axes which can be coordinated simultaneously for "contouring control" **and have a positioning accuracy with "all compensations available" equal to or less (better) than 3.6 µm according to ISO 230/2 (1997) or national equivalents along any linear axis; or**

   3. A positioning accuracy for jig boring machines, with "all compensations available", equal to or less (better) than 3 µm according to ISO 230/2 (1997) or national equivalents along any linear axis;

c. Electrical discharge machines (EDM) as specified in 2.B.1.d.

d. Deep-hole-drilling machines as specified in 2.B.1.f.

e. "Numerically controlled" or manual machine tools as specified in 2.B.3.

2.E.2.

"Technology" according to the General Technology Note for the "production" of equipment **as follows:**

a. Machine tools for turning having all of the following:
   1. Positioning accuracy with "all compensations available" equal to or less (better) than **3.6 µm** according to ISO 230/2 (1997) or national equivalents along any linear axis; and
   2. Two or more axes which can be coordinated simultaneously for "contouring control".

Sensitive List

Category 2 contd.

2.E.2.

b. Machine tools for milling having any of the following:
   1.a. Positioning accuracy with "all compensations available" equal to or less (better) than **3.6 µm** according to ISO 230/2 (1997) or national equivalents along any linear axis; and
   b. Three linear axes plus one rotary axis which can be coordinated simultaneously for "contouring control";

   2. Five or more axes which can be coordinated simultaneously for "contouring control" **and have a positioning accuracy with "all compensations available" equal to or less (better) than 3.6 µm according to ISO 230/2 (1997) or national equivalents along any linear axis**; or

   3. A positioning accuracy for jig boring machines, with "all compensations available", equal to or less (better) than 3 µm according to ISO 230/2 (1997) or national equivalents along any linear axis;

c. Electrical discharge machines (EDM) as specified in 2.B.1.d.

d. Deep-hole-drilling machines as specified in 2.B.1.f.

e. "Numerically controlled" or manual machine tools as specified in 2.B.3.

Category 3

3.A.2.g.1. Atomic frequency standards... "Space qualified"

3.B.1.a.2. Metal Organic Chemical Vapour Deposition (MOCVD) reactors...

3.D.1. "Software" specially designed for the "development" or "production" of equipment specified by **3.A.2.g. or 3.B. of this List.**

3.E.1. "Technology" according to the General Technology Note for the "development" or "production" of equipment specified by **3.A. or 3.B. of this List.**

Sensitive List

Category 4

4.A.1.a.2.	Electronic computers...radiation hardened...
4.A.3.b.	Not used since 2002
4.A.3.c.	Not used since 2001
4.D.1.	**"Software" specially designed for the "development" or "production" of equipment specified by 4.A. of this List or for the "development" or "production" of "digital computers" having an "Adjusted Peak Performance" ("APP") exceeding 0.1 Weighted TeraFLOPS (WT).**
4.E.1.	**"Technology" according to the General Technology Note for the "development" or "production" of any of the following equipment or "software":** **- Equipment specified by 4.A. of this List;** **- "Digital computers" having an "Adjusted Peak Performance" ("APP") exceeding 0.1 Weighted TeraFLOPS (WT); or** **- "Software" specified by 4.D. of this List.**

Category 5 - Part 1

5.A.1.b.3.	Being radio equipment...
5.A.1.b.5.	Being digitally controlled radio receivers...
5.B.1.a.	Equipment and specially designed components or accessories therefor, specially designed for the "development", "production" or "use" of equipment, functions or features in 5.A.1. **of this List.**
5.D.1.a.	**"Software" specially designed for the "development" or "production" of equipment, functions or features, specified by 5.A.1. of this List.**
5.D.1.b.	"Software" specially designed or modified to support "technology" specified by 5.E.1. **of this List.**
5.E.1.a.	**"Technology" according to the General Technology Note for the "development" or "production" of equipment, functions or features specified by 5.A.1. or "software" specified by 5.D.1.a. of this List.**

Category 5 - Part 2 - None

Sensitive List

Category 6

6.A.1.a.1.b.	Object detection or location systems, having any of the following: 1. A transmitting frequency below **5 kHz or a sound pressure level exceeding 224 dB (reference 1 µPa at 1 m) for equipment with an operating frequency in the band from 5 kHz to 10 kHz inclusive**; 2. Sound pressure level exceeding 224 dB… 3. Sound pressure level exceeding 235 dB… 4. Forming beams of… 5. Designed to operate… 6. Designed to withstand…
6.A.1.a.2.a.1.	Hydrophones...Incorporating…
6.A.1.a.2.a.2.	Hydrophones...Incorporating flexible assemblies…
6.A.1.a.2.a.3.	Hydrophones...Having any...
6.A.1.a.2.a.5.	Hydrophones...Designed to operate...
6.A.1.a.2.a.6.	Hydrophones...Designed for...
6.A.1.a.2.b.	Towed acoustic hydrophone arrays...
6.A.1.a.2.c.	Processing equipment, specially designed for **real time application with** towed acoustic hydrophone arrays, having "user accessible programmability" and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes;
6.A.1.a.2.d.	Heading sensors...
6.A.1.a.2.e.	Bottom or bay cable systems, having any of the following: 1. Incorporating hydrophones... or 2. Incorporating multiplexed hydrophone group signal modules…
6.A.1.a.2.f.	Processing equipment, specially designed for **real time application with** bottom or bay cable systems, having "user accessible programmability" and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes.
6.A.2.a.1.a., b., c. and d.	"Space-qualified" solid-state detectors...

Sensitive List

Category 6 contd.

6.A.2.a.2.a. Image intensifier tubes ...
1. A peak response...
2. Electron image amplification...
3. Photocathodes, as follows:
   a. Multialkali photocathodes (e.g., S-20 and S-25) having a luminous sensitivity exceeding 700 µA/lm;
   b. GaAs or GaInAs photocathodes;
   c. Other "III/V compound" semiconductor photocathodes.

6.A.2.a.2.b. Image intensifier tubes...

6.A.2.a.3. Non-space qualified "focal plane arrays"...;

Note 3

6.A.2.a.3. does not apply to the following "focal plane arrays" in this List:

a. Platinum Silicide (PtSi) "focal plane arrays" having less than 10,000 elements;

b. Iridium Silicide (IrSi) "focal plane arrays".

Note 4

6.A.2.a.3. does not apply to the following "focal plane arrays" in this List:

a. Indium Antimonide (InSb) or Lead Selenide (PbSe) "focal plane arrays" having less than 256 elements;

b. Indium Arsenide (InAs) "focal plane arrays";

c. Lead Sulphide (PbS) "focal plane arrays";

d. Indium Gallium Arsenide (InGaAs) "focal plane arrays".

Note 5

6.A.2.a.3. does not apply to Mercury Cadmium Telluride (HgCdTe) "focal plane arrays" as follows in this List:

a. 'Scanning Arrays' having any of the following:
   1. 30 elements or less; or
   2. Incorporating time delay-and-integration within the element and having 2 elements or less;

b. 'Staring Arrays' having less than 256 elements.

Technical Notes

1. 'Scanning Arrays' are defined as "focal plane arrays" designed for use with a scanning optical system that images a scene in a sequential manner to produce an image;

2. 'Staring Arrays' are defined as "focal plane arrays" designed for use with a non-scanning optical system that images a scene.

Sensitive List

Category 6 contd.

6.A.2.a.3.

Note 6

6.A.2.a.3. does not apply to the following "focal plane arrays" in this List:

a. Gallium Arsenide (GaAs) or Gallium Aluminum Arsenide (GaAlAs) quantum well "focal plane arrays" having less than 256 elements;

b. Microbolometer "focal plane arrays" having less than 8,000 elements.

Note 7

6.A.2.a.3.g. does not apply to the linear (1-dimensional) "focal plane arrays" specially designed or modified to achieve 'charge multiplication' having 4,096 elements or less.

Note 8

6.A.2.a.3.g. does not apply to the non-linear (2-dimensional) "focal plane arrays" specially designed or modified to achieve 'charge multiplication' having a maximum linear dimension of 4,096 elements and a total of 250,000 elements or less.

6.A.2.b. "Monospectral imaging sensors" and "multispectral imaging sensors"...

6.A.2.c. 'Direct view' imaging equipment incorporating any of the following:

1. Image intensifier tubes having the characteristics listed in 6.A.2.a.2.a. or 6.A.2.a.2.b. of this List;
2. "Focal plane arrays" having the characteristics listed in 6.A.2.a.3. of this List; or
3. Solid-state detectors having the characteristics listed in 6.A.2.a.1.;

6.A.2.e. "Space-qualified" "focal plane arrays"....

6.A.3.b.3. Imaging cameras incorporating image intensifier tubes having the characteristics listed in 6.A.2.a.2.a. or 6.A.2.a.2.b. of this List;

6.A.3.b.4. Imaging cameras incorporating "focal plane arrays" having any of the following:

a. Incorporating "focal plane arrays" specified by 6.A.2.a.3.a. to 6.A.2.a.3.e. of this List;

b. Incorporating "focal plane arrays" specified by 6.A.2.a.3.f. of this List; or

c. Incorporating "focal plane arrays" listed in 6.A.2.a.3.g. of this List.

Sensitive List

Category 6 contd.

6.A.3.b.4.

Note 1 *'Imaging cameras' described in 6.A.3.b.4. include "focal plane arrays" combined with sufficient "signal processing" electronics, beyond the read out integrated circuit, to enable as a minimum the output of an analogue or digital signal once power is supplied.*

Note 2 *6.A.3.b.4.a. does not apply to imaging cameras incorporating linear "focal plane arrays" with 12 elements or fewer, not employing time-delay-and-integration within the element and designed for any of the following:*

a. Industrial or civilian intrusion alarm, traffic or industrial movement control or counting systems;

b. Industrial equipment used for inspection or monitoring of heat flows in buildings, equipment or industrial processes;

c. Industrial equipment used for inspection, sorting or analysis of the properties of materials;

d. Equipment specially designed for laboratory use; or

e. Medical equipment.

Note 3 *6.A.3.b.4.b. does not apply to imaging cameras having any of the following:*

a. A maximum frame rate equal to or less than 9 Hz ;

b. Having all of the following:

1. Having a minimum horizontal or vertical 'Instantaneous-Field-of-View (IFOV)' of at least 10 mrad/pixel (milliradians/pixel);

2. Incorporating a fixed focal-length lens that is not designed to be removed;

3. Not incorporating a 'direct view' display; and

Technical Note

'Direct view' refers to an imaging camera operating in the infrared spectrum that presents a visual image to a human observer using a near-to-eye micro display incorporating any light-security mechanism.

4. Having any of the following:

a. No facility to obtain a viewable image of the detected field-of-view; or

b. The camera is designed for a single kind of application and designed not to be user modified; or

Sensitive List

Category 6 contd. *Note 3 to 6.A.3.b.4.b. cont.*

Technical Note

'Instantaneous Field of View (IFOV)' specified in Note 3.b. is the lesser figure of the 'Horizontal FOV' or the 'Vertical FOV'.

'Horizontal IFOV' = horizontal Field of View (FOV)/number of horizontal detector elements

'Vertical IFOV'= vertical Field of View (FOV)/number of vertical detector elements.

c. The camera is specially designed for installation into a civilian passenger land vehicle of less than 3 tonnes (gross vehicle weight) and having all of the following:

1. Is only operable when installed in any of the following:

a. The civilian passenger land vehicle for which it was intended; or

b. A specially designed, authorized maintenance test facility; and

2. Incorporates an active mechanism that forces the camera not to function when it is removed from the vehicle for which it was intended.

Note When necessary, details of the item will be provided, upon request, to the appropriate authority in the exporter's country in order to ascertain compliance with the conditions described in Note 3.b.4. and Note 3.c. above.

Note 4 6.A.3.b.4.c. does not apply to 'imaging cameras' having any of the following characteristics:

a. Having all of the following:

1. Where the camera is specially designed for installation as an integrated component into indoor and wall-plug-operated systems or equipment, limited by design for a single kind of application, as follows:

a. Industrial process monitoring, quality control, or analysis of the properties of materials;

b. Laboratory equipment specially designed for scientific research;

c. Medical equipment; or

d. Financial fraud detection equipment; and

2. Is only operable when installed in any of the following:

a. The system(s) or equipment for which it was intended; or

b. A specially designed, authorised maintenance facility; and

3. Incorporates an active mechanism that forces the camera not to function when it is removed from the system(s) or equipment for which it was intended;

Sensitive List

Category 6 contd. *Note 4 to 6.A.3.b.4.c. cont.*

b. Where the camera is specially designed for installation into a civilian passenger land vehicle of less than three tonnes (gross vehicle weight), or passenger and vehicle ferries having a length overall (LOA) 65 m or greater, and having all of the following:

1. Is only operable when installed in any of the following:

a. The civilian passenger land vehicle or passenger and vehicle ferry for which it was intended; or

b. A specially designed, authorised maintenance test facility; and

2. Incorporates an active mechanism that forces the camera not to function when it is removed from the vehicle for which it was intended;

c. Limited by design to have a maximum radiant sensitivity of 10 mA/W or less for wavelengths exceeding 760 nm, having all of the following:

1. Incorporating a response limiting mechanism designed not to be removed or modified; and

2. Incorporates an active mechanism that forces the camera not to function when the response limiting mechanism is removed; or

d. Having all of the following:

1. Not incorporating a 'direct view' or electronic image display;

2. Has no facility to output a viewable image of the detected field of view;

3. The "focal plane array" is only operable when installed in the camera for which it was intended; and

4. The "focal plane array" incorporates an active mechanism that forces it to be permanently inoperable when removed from the camera for which it was intended.

Note When necessary, details of the item will be provided, upon request, to the appropriate authority in the exporter's country in order to ascertain compliance with the conditions described in Note 4 above.

6.A.3.b.5. Imaging cameras incorporating solid-state detectors specified by 6.A.2.a.1.;

Sensitive List

Category 6 contd.

6.A.4.c.	"Space-qualified" components for optical systems...
6.A.4.d.	Optical control equipment...
6.A.6.a.	Not used since 2006
6.A.6.a.1.	"Magnetometers"... Using "superconductive" (SQUID) "technology"...
6.A.6.a.2.	"Magnetometers" ... Using optically pumped or nuclear precession (proton/Overhauser) "technology" having a 'sensitivity' lower (better) than **2pT rms per square root Hz**;
6.A.6.c.1.	"Magnetic gradiometers" using multiple "magnetometers" specified by 6.A.6.a.1. or 6.A.6.a.2. of this List;
6.A.6.d.	"Compensation systems" **for the following:** **1. Magnetic sensors specified by 6.A.6.a.2. and using optically pumped or nuclear precession (proton/Overhauser) "technology" that will permit these sensors to realize a 'sensitivity' lower (better) than 2 pT rms per square root Hz.** **2. Underwater electric field sensors specified by 6.A.6.b.** **3. Magnetic gradiometers specified by 6.A.6.c. that will permit these sensors to realize a 'sensitivity' lower (better) than 3 pT/m rms per square root Hz.**
6.A.6.g.	Not used since 2006
6.A.6.h.	Not used since 2006
6.A.8.d.	Radar systems...Capable of...
6.A.8.h.	Radar systems...Employing processing...
6.A.8.k.	Radar systems...Having "signal processing"...
6.A.8.l.3.	Radar systems... Having data processing... Processing for...
6.B.8.	Pulse radar cross-section...
6.D.1.	"Software" specially designed for the "development" or "production" of equipment specified by **6.A.4., 6.A.8. or 6.B.8. of this List.**
6.D.3.a.	"Software", as follows:...
6.E.1.	"Technology" according to...
6.E.2.	"Technology" according to the General Technology Note for the "production" of equipment specified by **6.A. or 6.B. of this List.**

Sensitive List

Category 7

7.D.2.	"Source code" for the "use"...
7.D.3.a.	"Software" specially designed or modified to...
7.D.3.b.	"Source code" for...
7.D.3.c.	"Source code" for...
7.D.3.d.1. to 4. & 7.	"Source code" for the "development" of...
7.E.1. & 7.E.2.	"Technology" according to the General Technology Note...

Category 8

8.A.1.b.	Manned, untethered submersible vehicles...
8.A.1.c.	Unmanned, tethered submersible vehicles...
8.A.1.d.	Unmanned, untethered submersible vehicles...
8.A.2.b.	Systems specially designed or modified for the automated control of the motion of submersible vehicles **specified by 8.A.1. of this List** using navigation data having closed loop servo-controls and having any of the following: 1. Enabling... 2. Maintaining... 3. Maintaining...
8.A.2.h.	"Robots" specially designed for underwater use...
8.A.2.j.	Air independent power systems...
8.A.2.o.3.	Noise reduction systems for use on vessels...
8.A.2.p.	Pumpjet propulsion systems...
8.D.1.	**"Software" specially designed for the "development" or "production" of equipment in 8.A. of this List.**
8.D.2	Specific "software"...
8.E.1.	"Technology" according to the General Technology Note for the "development" or "production" of equipment specified by **8.A. of this List**.
8.E.2.a.	Other "technology"...

Sensitive List

Category 9

9.A.11.	Ramjet, scramjet or combined cycle engines...
9.B.1.b.	Ceramic cores or shells.
9.D.1.	"Software" specially designed or modified for the "development" of equipment or "technology", specified by **9.A., 9.B. or 9.E.3. of this List.**
9.D.2.	"Software" specially designed or modified for the "production" of equipment specified by **9.A. or 9.B. of this List**.
9.D.4.a.	Other "software"... 2D or 3D...
9.D.4.c.	Other "software"..."Software" specially...
9.E.1.	"Technology" according to the General Technology Note...
9.E.2.	"Technology" according to the General Technology Note...
9.E.3.a.1.	Other "technology"...Gas turbine blades...
9.E.3.a.2. to 5. & 9.E.3.a.8. & 9.	Other "technology"...

Very Sensitive List

VERY SENSITIVE LIST OF DUAL-USE GOODS AND TECHNOLOGIES

N.B. *Where abbreviated entries are used, see List of Dual-Use Goods and Technologies for full details. Text that differs from that in the List of Dual-Use Goods and Technologies is* ***shaded****.*

Category 1	
1.A.2.a.	**"Composite" structures or laminates consisting of an organic "matrix" and materials specified by 1.C.10.c. or 1.C.10.d.**
1.C.1.	Materials specially designed for use as absorbers of electromagnetic waves...
1.C.12.	Materials as follows...
1.E.1.	"Technology" according to the General Technology Note for the "development" or "production" of equipment and materials specified by **1.A.2 or 1.C. of this List**.
Category 2	None
Category 3	None
Category 4	None
Category 5 - Part 1	
5.A.1.b.5.	Digitally controlled radio receivers...
5.D.1.a.	**"Software" specially designed for the "development" or "production" of equipment, functions or features specified by Category 5, Part 1 of this List.**
5.E.1.a.	**"Technology" according to the General Technology Note for the "development" or "production" of equipment, functions, features or "software" specified by Category 5, Part 1 of this List.**
Category 5 - Part 2	None

Very Sensitive List

Category 6

6.A.1.a.1.b.1.	**Object detection or location systems, having a sound pressure level exceeding 210 dB (reference 1 μPa at 1 m) and an operating frequency in the band from 30 Hz to 2 kHz.**
6.A.1.a.2.a.1.	Hydrophones...Incorporating...
6.A.1.a.2.a.2.	Hydrophones...Incorporating flexible assemblies...
6.A.1.a.2.a.3.	Hydrophones...Having any...
6.A.1.a.2.a.5.	Hydrophones...Designed to operate ...
6.A.1.a.2.a.6.	Hydrophones...Designed for...
6.A.1.a.2.b.	Towed acoustic hydrophone arrays...
6.A.1.a.2.c.	Processing equipment, specially designed for **real time application with** towed acoustic hydrophone arrays, having "user accessible programmability" and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes;
6.A.1.a.2.e.	Bottom or bay cable systems having any of the following: 1. Incorporating hydrophones... or 2. Incorporating multiplexed hydrophone group signal modules ...
6.A.1.a.2.f.	Processing equipment, specially designed for **real time application with** bottom or bay cable systems, having "user accessible programmability" and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes;
6.A.2.a.1.c.	"Space-qualified" solid-state detectors...
6.A.8.1.3.	Radar systems...Having data processing... Processing for...
6.B.8.	Pulse radar cross-section...
6.D.1.	"Software" specially designed for the "development" or "production" of equipment specified by **6.A.8., or 6.B.8. of this List.**
6.D.3.a.	"Software", as follows: ...
6.E.1.	"Technology" according to the General Technology Note for the "development" of **equipment or "software" specified by 6.A., 6.B., or 6.D. of this List.**
6.E.2.	"Technology" according to the General Technology Note for the "production" of equipment specified by **6.A. or 6.B. of this List**.

Very Sensitive List

Category 7

7.D.3.a.	"Software" specially designed or modified to...
7.D.3.b.	"Source code" for...

Category 8

8.A.1.b.	Manned, untethered submersible vehicles...
8.A.1.d.	Unmanned, untethered submersible vehicles...
8.A.2.o.3.b.	Active noise reduction or cancellation systems...
8.D.1.	**"Software" specially designed for the "development" or "production" of equipment specified by 8.A. of this List.**
8.E.1.	"Technology" according to the General Technology Note for the "development" or "production" of equipment specified by **8.A. of this List.**

Category 9

9.A.11.	Ramjet, scramjet or combined cycle engines...
9.D.1.	"Software" specially designed or modified for the "development" of equipment or "technology" specified by **9.A. or 9.E.3. of this List.**
9.D.2.	"Software" specially designed or modified for the "production" of equipment specified by **9.A. of this List**.
9.E.1.	"Technology" according to the General Technology Note for the "development" of equipment or "software" specified by **9.A.11. or 9.D. of this List.**
9.E.2.	"Technology" according to the General Technology Note for the "production" of equipment specified by **9.A.11. of this List**.
9.E.3.a.1.	Other "technology"...Gas turbine blades...
9.E.3.a.3.a.	"Technology" "required" for ... Components manufactured from... Organic "composite" materials designed to operate above 588 K (315°C).